

A vertical strip of ten small, square images showing the progression of a handwritten letter 'H' from a simple stroke to a fully formed character.

3. The method of detecting data synchronization according to claim 1, further comprising:

finding the correlation of a rear section of the identified output of said code-modulated reproduced data and a GAP pattern for correctly reproducing the final bit of said reproduced data; and

specifying the position of a data portion based on the correlation thus found.

4. The method of detecting data synchronization according to claim 1, further comprising:

finding, for a data position detection pattern provided at an intermediate position in the data, the correlation of an intermediate portion of the identified output of code-modulated reproduced data and a data position detection pattern; and

specifying the position of a data portion based on the correlation thus found.

5. The method of detecting data synchronization according to claim 1, further comprising selecting reproduced data used for data synchronization detection, or reproduced data used for position detection of a data portion, by means of a data quality signal representing the probability that there is an error in the identified output of the reproduced data.

6. A method of detecting data synchronization, wherein the start position of original data sandwiched between a first bit pattern for bit synchronization detection and a second bit pattern arranged after said

*Handwritten:*   
 1. *Amended*   
 2. *Amended*



detecting data synchronization using the data  
synchronization detection method according to claim 1;

code-demodulating the data in accordance with a  
specified code modulation phase;

descrambling the code-demodulated data with two or  
more types of descrambler;

detecting error in respect of the descrambled data;  
and

outputting as reproduced data the output data of the  
descrambler for which the number of detected errors is  
smallest.

10. A method of reproducing information using the  
output data of a descrambler as reproduced data,  
comprising:

inputting reproduced data including descrambler  
information;

detecting data synchronization, using the data  
synchronization detection method according to claim 1;

code-demodulating data in accordance with a  
specified code-modulation phase;

error-correcting the code-demodulated data; and

descrambling in accordance with scrambling  
information included in the error-corrected data.